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Low Power SRAM

The following page content corresponds to the products formerly marketed by Renesas Technology.

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Low Power SRAM

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Product Overview:

Renesas is the worldwide #2 Low Power SRAM supplier with a full lineup and well balanced performance RAMs using Renesas's original technology, for example the Advanced LPSRAM.

Key Features:

Renesas maintains:

- A full lineup (256Kb to 32Mb)
- Contribution to system performance (Standby current, Wide temp.)
- Next generation technology (Large density with high reliability)
- Environment awareness (All products are already lead-free)

Key Applications:

For Work Memory and Battery-backed memory. Renesas Low Power SRAMs can be used in the following applications:

- General Manufacturing/FA equipment
- Car Instrument Systems
- OA related equipment
- Digital consumer electronics
- Cellular phones / Hand-held equipment

Full Lineup;

Find an SRAM suitable for your systems:

- Voltage (5V, 3V, 1.8V), Configuration (x8, x16)
- Low (256Kb - 2Mb) / Middle (4Mb - 8Mb) / High (16Mb - 32Mb) density
- Package series (SOP/TSOP/small TSOP/FBGA)

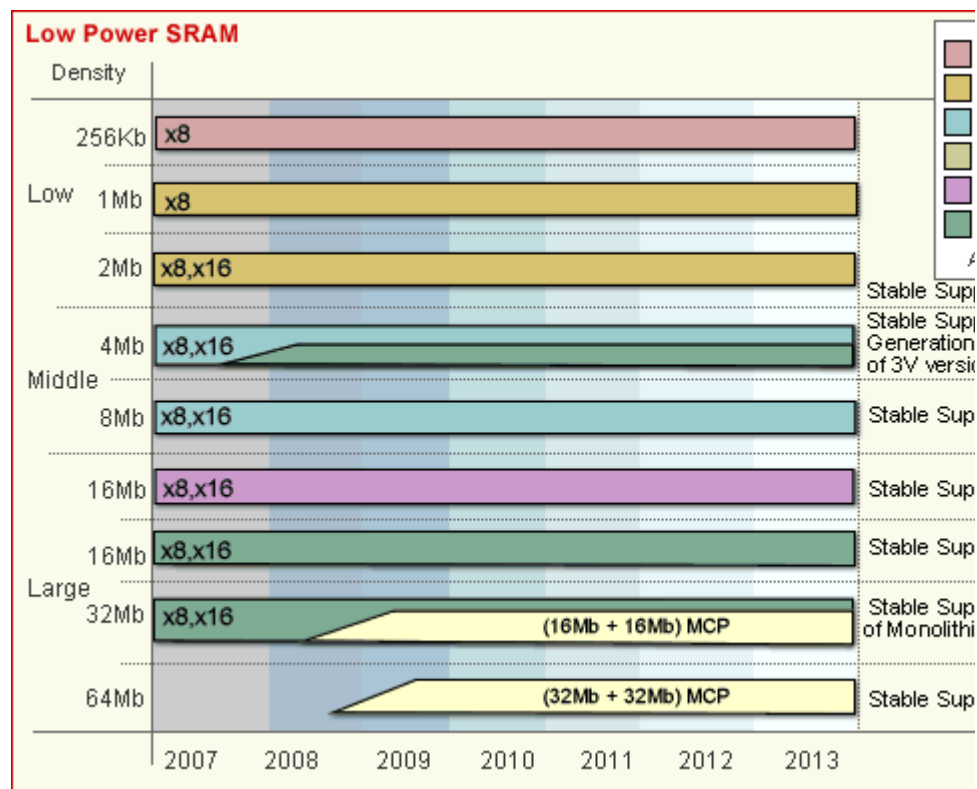
Future Development;

Renesas provides full support:

- Low power consumption / high speed & reliability
- New concept memory cells (Advanced LPSRAM) are offered with large density

Road Map;

Renesas has seven series from 256Kb to 32Mb



Product Lineup:

Low Power SRAM

Memory capacity (bit)	Organization (word)	Organization (bit)	Part No.	Package	Access time
8M	512K	x 16	R1LV0816ABG-7SI	CSP(48)	70 ns
8M	1M / 512K	x 8 / x 16	R1LV0816ASD-7SI	μTSOP(52)	70 ns
8M	1M / 512K	x 8 / x 16	R1LV0816ASD-5SI	μTSOP(52)	70 ns
8M	1M / 512K	x 8 / x 16	R1LV0816ASA-7SI	TSOP(48)	70 ns
8M	1M / 512K	x 8 / x 16	R1LV0816ASA-5SI	TSOP(48)	55 ns
8M	1M	x 8	R1LV0808ASB-5SI	TSOP(44)	55 ns

8M	512K	x 16	R1LV0816ABG-5SI	CSP(48)	55	:
8M	512K	x 16	R1LV0816ASB-7SI	TSOP(44)	70	:
8M	512K	x 16	R1LV0816ASB-5SI	TSOP(44)	55	:
8M	1M	x 8	R1LV0808ASB-7SI	TSOP(44)	70	:
8M	512K	x 16	HM6216514LTTI-5SL	TSOP(44)	55	,
8M	1M	x 8	HM628100LTTI-5SL	TSOP(44)	55	,
8M	1M	x 8	HM62V8100LTTI-5	TSOP(44)	55	:
8M	1M	x 8	HM62V8100LTTI-5SL	TSOP(44)	55	:
1M	128K	x 8	M5M51008DFP-55H	SOP(32)	55	,
1M	128K	x 8	M5M51008DFP-55HI	SOP(32)	55	,
1M	128K	x 8	M5M51008DFP-70H	SOP(32)	70	,
1M	128K	x 8	M5M51008DFP-70HI	SOP(32)	70	,
1M	128K	x 8	M5M51008DKV-55H	sTSOP(32)	55	,
1M	128K	x 8	M5M51008DKV-55HI	sTSOP(32)	55	,
1M	128K	x 8	M5M51008DKV-70H	sTSOP(32)	70	,
1M	128K	x 8	M5M51008DKV-70HI	sTSOP(32)	70	,
1M	128K	x 8	M5M51008DRV-55H	TSOP(32)	55	,
1M	128K	x 8	M5M51008DRV-55HI	TSOP(32)	55	,
1M	128K	x 8	M5M51008DRV-70H	TSOP(32)	70	,
1M	128K	x 8	M5M51008DRV-70HI	TSOP(32)	70	,
1M	128K	x 8	M5M51008DVP-55H	TSOP(32)	55	,
1M	128K	x 8	M5M51008DVP-55HI	TSOP(32)	55	,
1M	128K	x 8	M5M51008DVP-70H	TSOP(32)	70	,
1M	128K	x 8	M5M51008DVP-70HI	TSOP(32)	70	,
256K	32K	x 8	M5M5256DFP-55LL	SOP(28)	55	,
256K	32K	x 8	M5M5256DFP-55XL	SOP(28)	55	,

256K	32K	x 8	M5M5256DFP-70G	SOP(28)	70	:
256K	32K	x 8	M5M5256DFP-70GI	SOP(28)	70	:
256K	32K	x 8	M5M5256DFP-70LL	SOP(28)	70	:
256K	32K	x 8	M5M5256DFP-70LLI	SOP(28)	70	:
256K	32K	x 8	M5M5256DFP-70XG	SOP(28)	70	:
256K	32K	x 8	M5M5256DFP-70XL	SOP(28)	70	:
256K	32K	x 8	M5M5256DVP-55LL	TSOP(28)	55	:
256K	32K	x 8	M5M5256DVP-55XL	TSOP(28)	55	:
256K	32K	x 8	M5M5256DVP-70G	TSOP(28)	70	:
256K	32K	x 8	M5M5256DVP-70GI	TSOP(28)	70	:
256K	32K	x 8	M5M5256DVP-70LL	TSOP(28)	70	:
256K	32K	x 8	M5M5256DVP-70LLI	TSOP(28)	70	:
256K	32K	x 8	M5M5256DVP-70XG	TSOP(28)	70	:
256K	32K	x 8	M5M5256DVP-70XL	TSOP(28)	70	:
1M	128K	x 8	M5M5V108DFP-70H	SOP(32)	70	:
1M	128K	x 8	M5M5V108DFP-70HI	SOP(32)	70	:
1M	128K	x 8	M5M5V108DKV-70H	sTSP(32)	70	:
1M	128K	x 8	M5M5V108DKV-70HI	sTSP(32)	70	:
1M	128K	x 8	M5M5V108DVP-70H	TSOP(32)	70	:
1M	128K	x 8	M5M5V108DVP-70HI	TSOP(32)	70	:
2M	256K	x 8	M5M5V208AKV-70HI	sTSP(32)	70	:
2M	128K	x 16	M5M5V216ATP-55HI	TSOP(44)	55	:
2M	128K	x 16	M5M5V216ATP-70HI	TSOP(44)	70	:
8M	512K	x 16	M5M5W816TP-55HI	TSOP(44)	55	:
8M	512K	x 16	M5M5W816TP-70HI	TSOP(44)	70	:

8M	512K	x 16	M5M5W816WG-55HI	CSP(48)	55	:
8M	512K	x 16	M5M5W816WG-70HI	CSP(48)	70	:
8M	1M / 512K	x 8 / x 16	M5M5W817KT-70HI	μTSOP(52)	70	:
4M	512K	x 8	R1LP0408CSB-5SC	TSOP(32)	55	:
4M	512K	x 8	R1LP0408CSB-5SI	TSOP(32)	55	:
4M	512K	x 8	R1LP0408CSB-7LC	TSOP(32)	70	:
4M	512K	x 8	R1LP0408CSB-7LI	TSOP(32)	70	:
4M	512K	x 8	R1LP0408CSC-5SC	TSOP(32)	55	:
4M	512K	x 8	R1LP0408CSC-5SI	TSOP(32)	55	:
4M	512K	x 8	R1LP0408CSP-5SC	SOP(32)	55	:
4M	512K	x 8	R1LP0408CSP-5SI	SOP(32)	55	:
4M	512K	x 8	R1LP0408CSP-7LC	SOP(32)	70	:
4M	512K	x 8	R1LP0408CSP-7LI	SOP(32)	70	:
4M	512K	x 8	R1LV0408DSA-5SI	sTSOP(32)	55	:
4M	512K	x 8	R1LV0408DSA-5SR	sTSOP(32)	55	:
4M	512K	x 8	R1LV0408DSA-7LI	sTSOP(32)	70	:
4M	512K	x 8	R1LV0408DSA-7LR	sTSOP(32)	70	:
4M	512K	x 8	R1LV0408DSB-5SI	TSOP(32)	55	:
4M	512K	x 8	R1LV0408DSB-5SR	TSOP(32)	55	:
4M	512K	x 8	R1LV0408DSB-7LI	TSOP(32)	70	:
4M	512K	x 8	R1LV0408DSB-7LR	TSOP(32)	70	:
4M	512K	x 8	R1LV0408DSP-5SI	SOP(32)	55	:
4M	512K	x 8	R1LV0408DSP-5SR	SOP(32)	55	:
4M	512K	x 8	R1LV0408DSP-7LI	SOP(32)	70	:
4M	512K	x 8	R1LV0408DSP-7LR	SOP(32)	70	:
4M	256K	x 16	R1LV0414DSB-5SI	TSOP(44)	55	:

4M	256K	x 16	R1LV0414DSB-7LI	TSOP(44)	70	:
4M	256K	x 16	R1LV0416DBG-5SI	CSP(48)	55	:
4M	256K	x 16	R1LV0416DBG-7LI	CSP(48)	70	:
4M	256K	x 16	R1LV0416DSB-5SI	TSOP(44)	55	:
4M	256K	x 16	R1LV0416DSB-7LI	TSOP(44)	70	:
16M	1M	x 16	R1LV1616HBG-4SI	FBGA(48)	45	:
16M	1M	x 16	R1LV1616HBG-5SI	FBGA(48)	55	:
16M	2M / 1M	x 8 / x 16	R1LV1616HSA-4LI	TSOP(48)	45	:
16M	2M / 1M	x 8 / x 16	R1LV1616HSA-4SI	TSOP(48)	45	:
16M	2M / 1M	x 8 / x 16	R1LV1616HSA-5SI	TSOP(48)	55	:
16M	1M	x 16	R1LV1616RBA-5SI	WL-CSP(48)	55	:
16M	1M	x 16	R1LV1616RBG-5SI	FBGA(48)	55	:
16M	1M	x 16	R1LV1616RBG-5SR	FBGA(48)	55	:
16M	1M	x 16	R1LV1616RBG-7SI	FBGA(48)	70	:
16M	1M	x 16	R1LV1616RBG-7SR	FBGA(48)	70	:
16M	1M	x 16	R1LV1616RBG-8SI	FBGA(48)	85	:
16M	1M	x 16	R1LV1616RBG-8SR	FBGA(48)	85	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-5SI	TSOP(48)	55	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-5SR	TSOP(48)	55	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-7SI	TSOP(48)	70	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-7SR	TSOP(48)	70	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-8SI	TSOP(32)	85	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSA-8SR	TSOP(32)	85	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSD-5SI	μTSOP(52)	55	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSD-5SR	μTSOP(52)	55	:

16M	2M / 1M	x 8 / x 16	R1LV1616RSD-7SI	μTSOP(52)	70	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSD-7SR	μTSOP(52)	70	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSD-8SI	μTSOP(52)	85	:
16M	2M / 1M	x 8 / x 16	R1LV1616RSD-8SR	μTSOP(52)	85	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSA-5SI	TSOP(48)	55	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSA-5SR	TSOP(48)	55	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSA-7SI	TSOP(48)	70	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSA-7SR	TSOP(48)	70	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSD-5SI	μTSOP(52)	55	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSD-5SR	μTSOP(52)	55	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSD-7SI	μTSOP(52)	70	:
32M	4M / 2M	x 8 / x 16	R1LV3216RSD-7SR	μTSOP(52)	70	:
32M	2M	x 16	R1WV3216RBG-7SI	FBGA(48)	70	:
32M	2M	x 16	R1WV3216RBG-7SR	FBGA(48)	70	:
32M	2M	x 16	R1WV3216RBG-8SI	FBGA(48)	85	:
32M	2M	x 16	R1WV3216RBG-8SR	FBGA(48)	85	:
32M	4M / 2M	x 8 / x 16	R1WV3216RSD-7SI	μTSOP(52)	70	:
32M	4M / 2M	x 8 / x 16	R1WV3216RSD-7SR	μTSOP(52)	70	:
32M	4M / 2M	x 8 / x 16	R1WV3216RSD-8SI	μTSOP(52)	85	:
32M	4M / 2M	x 8 / x 16	R1WV3216RSD-8SR	μTSOP(52)	85	:
64M	4M	x 16	R1WV6416RBG-5SI	FBGA(48)	55	:
64M	4M	x 16	R1WV6416RBG-5SR	FBGA(48)	55	:
64M	4M	x 16	R1WV6416RBG-7SI	FBGA(48)	70	:
64M	4M	x 16	R1WV6416RBG-7SR	FBGA(48)	70	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSA-5SI	TSOP(48)	55	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSA-5SR	TSOP(48)	55	:

64M	8M / 4M	x 8 / x 16	R1WV6416RSA-7SI	TSOP(48)	70	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSA-7SR	TSOP(48)	70	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSD-5SI	μTSOP(52)	55	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSD-5SR	μTSOP(52)	55	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSD-7SI	μTSOP(52)	70	:
64M	8M / 4M	x 8 / x 16	R1WV6416RSD-7SR	μTSOP(52)	70	:

Non-promotion products

Click the link above to see the list of Non-promotion products.

Non-promotion products are only supported for customers who have already adopted them.

We do not recommended adoption of these products in new designs.